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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------------|-----------------|----------------------|-------------------------|------------------|
| 09/960,246 | 09/21/2001 | Vivian Pecus | 4940/1J | 4339 |
| 33690 | 7590 11/28/2005 | | EXAMINER | |
| DAVID LOEWENSTEIN 802 KING ST. | | | MEHRA, INDER P | |
| RYE BROOK | | | ART UNIT | PAPER NUMBER |
| | • | | 2666 | |
| | | | DATE MAILED: 11/28/2004 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | |
|---|---|---|--|
| | 09/960,246 | PECUS ET AL. | |
| Office Action Summary | Examiner | Art Unit | |
| | Inder P. Mehra | 2666 | |
| The MAILING DATE of this communication Period for Reply | n appears on the cover sheet wit | h the correspondence address | |
| A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory is - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). | ON. FR 1.136(a). In no event, however, may a recon. A reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON statute, cause the application to become ABA | ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133). | |
| Status | | | |
| 1) Responsive to communication(s) filed on | <u>01 September 2005</u> . | | |
| 2a) This action is FINAL . 2b) ⊠ | This action is non-final. | | |
| 3) Since this application is in condition for al closed in accordance with the practice un | • | • • | |
| Disposition of Claims | | | |
| 4) ☐ Claim(s) 1-3 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction as | hdrawn from consideration. | | |
| Application Papers | | | |
| 9)☑ The specification is objected to by the Exa 10)☑ The drawing(s) filed on 21 September 200 Applicant may not request that any objection to Replacement drawing sheet(s) including the continuous the output of the continuous the continuous the continuous the continuous the continuous the continuous that the continuous tha | $11 \text{ is/are: a)} \boxtimes \text{ accepted or b)} $ o the drawing(s) be held in abeyand orrection is required if the drawing(s) | e. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d). | |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a | ments have been received. ments have been received in Ap priority documents have been uureau (PCT Rule 17.2(a)). | plication No eceived in this National Stage | |
| Attachment(s) | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 | 4) Interview Su | mmary (PTO-413) 'Mail Date | |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 11/8, 11/8 and 9/1. | | ormal Patent Application (PTO-152) | |

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DETAILED ACTION

1. This is in response to application dated: 9/21/2001. Claims 1-3 are pending.

Claim Objections

2. Claims 1 and 3 are objected to because of the following informalities:

Claims 1 and 3 recite "NOC" in line 1. It is not explained as to its definition and function in specification. No where in the claims or specifications des it explain as to the specific functions of NOC. In claim1, it describes what NOC acronym stands for, such as network operations center. It is not enough. What contents are being received from NOC?

Appropriate correction is required.

Information Disclosure Statement

3. IDS dated: 11/8/02 has been sent twice including list of documents (6377981, ----- 5583561), which is duplicate. Therefore, only one list is necessary and has been considered.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claim 1 recites following limitations, which do not have antecedent basis for this limitation in the claim:
 - the public ---VLANs in line 20 (last line);

 private VLAN. It should be preceded by "the", recited because it is preceded by the same limitation.

Claim1 recites "the private VLAN --- and comprises a receiving router, a receiver, a demodulator, and a gateway", in lines 14 and 15, whereas in lines 18-19, it recites "the outbound router and load balancer comprise a public VLAN ---. It is not clear from the drawings, as to what private and public VLANs are comprised of?

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hartsell et al** (US Application Publication 2003/0236745), hereinafter, Hartsell, in view of **Voit et al** (US Patent No. 6,829,250).

For claims 1 and 3, Hartsell discloses "a scalable edge node (information management features at the edge of a network (e.g., across single or multiple nodes, refer to paragraph 0012) that receives content from a NOC via a satellite link (an edge network may be wired, wireless, satellite-based, refer to paragraph 0249, and fig. 6) and distributes it via a last mile service provider, the edge node, (linking users, refer to paragraph 0050) comprising:

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• a variable number of media servers 310 (refer to fig. 6) connected to a load balancer 305, the load balancer capable of determining which of the servers connected to it is best able to meet a user's request for content, the number of media servers capable of being changed, while content is being received, to meet changes in demand for data (refer to paragraph 0011 and 0207);

- a shared storage device connected to the media servers (1040a in fig. 1B, and Network endpoint systems may include a wide variety of computing devices, including but not limited to, classic general purpose servers, specialized servers, network appliances, storage area networks or other storage medium;
- a private VLAN, (refer to paragraph 0277), that receives content from the NOC over the satellite link (paragraph 0249), and distributes it to the shared storage device 1040 in fig. 1A or 312 in fig. 6;
- as recited by claim 2, wherein the media servers 310 in fig. 6, the load balancer307 in fig. 6, the shared storage device1040 in fig. 1A or 312 in fig. 6, and the private VLAN, refer to paragraph 0277, are enclosed in a single equipment rack 300 in fig. 6.

Hartsell does not disclose "last mile service provider" and "a private VLAN " explicitly in the following limitation, which is disclosed explicitly by Voit, as follows:

- "last mile service provider", (15 and 21 in fig. 1;
- a private VLAN that receives content from the NOC over the satellite link, and distributes it to the shared storage device, refer to fig. 2 and col. 18 lines 45-62 and col. 26 lines 45-50;

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It would have been obvious to the person of ordinary skill in the art at the time the invention to use "VLAN ---shared device", as taught by Voit in the network architecture. The capability can be implemented by connecting VLAN at the edge node. The motivation for using this capability being that it provides more cost effective edge node and reduces latency in retrieving data from servers.

Response to Arguments

8. Applicant's arguments filed 9/1/2005 have been fully considered but they are not persuasive.

Applicant argues that "Nothing in the prior art describes Applicants' invention for altering the number of servers while an edge node is operating with all of the additional features discussed above.

In response, it is stated that Hartsell et al discloses <u>allow varying levels of service to be</u>

<u>differentially tailored or personalized for individual network users</u>. Consideration of such

quality assurance parameters may be used to advantageously provide end-to-end network

systems, such as <u>end-to-end content delivery infrastructures</u>, with network -based mechanisms

--- This ability may be used by service providers ("xSPs") to offer their users premium

information management services for premium prices.

In light of explanation above, arguments by applicant are not persuasive.

Conclusion

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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